

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **07246470 A**(43) Date of publication of application: **26.09.95**

(51) Int. Cl.

B23K 9/12**B23K 9/12**(21) Application number: **06041170**(22) Date of filing: **11.03.94**(71) Applicant: **BABCOCK HITACHI KK**(72) Inventor:
**HORI KATSUYOSHI
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TSUNODA MASAHIRO**(54) **WIRE FEEDER FOR WELDING**

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(57) Abstract:

PURPOSE: To provide a wire feeder of push-pull or push system hard to generate the buckling of a wire and capable of stably feeding the wire at constant speed.

CONSTITUTION: A welding torch 2, a pull roller 6 and a pull motor 8 are mounted on the tip arm 11 of an articulated welding robot 10, and an expansion member 21 is mounted on the wire introducing side of the pull roller 6. Meanwhile, a push roller 5 and a push motor 7 are mounted on the intermediate arm 12 of the robot 10. Moreover, a stand 13 is erected in the neighborhood of the robot 10, and a wire reel 1 is mounted on the stand. The wire 4 drawn out of the wire reel is introduced to the push roller by a conduit tube 14, and the wire 4 drawn out of the push roller is introduced to the expansion member by a conduit tube 3. The expansion member absorbs the expansion/contraction of a wire feed route generated due to the oscillation of the welding torch, and prevents an excessive tensile or compressive force from being applied to the wire.

